



**City of Franklin,
Tennessee**

**Water Management
Department
Budget Fiscal
Year 2008 - 2009**



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Section 1: Executive Summary

The proposed 2009 Fiscal Year (FY 2009) budget narrative for the Water Management Department is presented in four sections with associated divisions as described below. The sections and their inclusive divisions, as applicable, are as follows:

- Section 1: Executive Summary
- Section 2: Water Systems
 - Utility Billing Division
 - Water Treatment Division
 - Water Distribution Division
- Section 3: Wastewater Systems
 - Administration Division
 - Wastewater Treatment Division
 - Wastewater Collections Division
- Section 4: Reclaimed Water Systems
 - Reclaimed Water Division

Water Management Department Staff with guidance from Customers, Regulatory Agencies, City Administration, and the Board of Mayor and Aldermen, continue to refine the direction of the department in many areas to aggressively improve system functionality, accommodate future growth, plan for the future regulatory environment, and to enhance customer service.

There are various major initiatives underway in the Water Management Department. A sampling of these initiatives include:

- Meter vault improvements to enhance water intake capabilities from the Harpeth Valley Utility District. Short term modifications are planned within the next couple of months as well as plans to upgrade the facility for long term demands.
- Expansion of the reclaimed water system consistent with direction of the BOMA. The expansion of this system is intended to reduce high irrigation demands on the water supply system, reduce effluent discharges to the Harpeth River, and provide for a cheaper alternative to water customers.
- New Wastewater Treatment Facility in the Goose Creek area. The Water Management Department is currently requesting qualifications for the design of this facility. The intent is to provide for highly treated effluent to distribute as reclaimed water. Current direction points to a zero

discharge facility. Updates shall be provided to City Administration and the BOMA as the project moves forward.

- Continued work towards refining the cost of service. We are moving into year two of the cost of service analysis with Jackson Thornton. Through this project, the department will refine rate analyses, evaluate the reclaimed water rate structure, and provide recommendations to the BOMA for consideration and approval.
- Continued infrastructure improvements, particularly in the south Franklin area to meet the needs of water supply, fire flows, reclaimed water, and wastewater collection.

The following sections present a summary of the activities performed by each division in FY 2008 and a narrative of the Department's and the Divisions' needs for FY 2009 to achieve these goals. **Table 1-1** presents a comparison of the FY 2008 and the FY 2009 budget expenses.

Table 1-1: FY 2008 FY 2009 Budget Expenses Comparison			
Item	FY 2008	FY 2009	Percent Increase (Decrease)
Operations			
Water	\$7,643,407	\$8,078,125	5.7
Wastewater	\$10,145,766	\$9,323,134	(8.1)
Reclaimed Water	\$206,100	\$144,600	(29.8)
Contributed Expenses			
Water	\$10,545,000	\$11,727,250	11.2
Wastewater	\$13,582,716	\$14,819,106	9.1
Reclaimed Water	\$1,100,000	\$2,963,700	169.4

Tables 1-2 and 1-3 present a summary of the revenues and expenditures and detail of the revenues respectively. The proposed capital projects for FY 2009 are presented in the expense fund (i.e. Access, Taps, Assessments, etc) from which it should be paid instead placing them in Bond Expenses. This is summarized in **Table 1-2** as Contributed Expenses. This approach was taken to illustrate the magnitude of the projects and provide the Board with a clearer understanding of the source of the expenditures being considered (i.e. growth, operations, or system replacement/upgrades) relative to revenues. The exception to this are the Reclaimed Water projects, all of which are proposed to be funded through bond monies.

Table 1-2
CITY OF FRANKLIN
2008- 2009 FISCAL YEAR BUDGET

SUMMARY	Actual 2006	Actual 2007	Budgeted 2008	Estimated Actual 2008	Budgeted 2009
<u>OPERATING REVENUES</u>					
WATER	6,975,016	6,838,840	8,228,543	6,919,940	8,162,121
WASTEWATER	6,045,884	6,708,099	8,386,747	7,115,700	8,640,650
RECLAIMED	67,683	107,608	24,483	190,000	317,200
	13,088,583	13,654,547	16,639,773	14,225,640	17,119,971
<u>OPERATING EXPENSES</u>					
WATER	6,587,307	6,165,547	7,643,407	6,619,538	8,078,125
WASTEWATER	6,931,731	6,497,082	10,145,766	7,021,427	9,323,134
RECLAIMED	45,992	46,795	206,100	40,000	144,600
	13,565,030	12,709,424	17,995,273	13,680,965	17,545,860
SURPLUS/(DEFICIT)	(476,447)	945,123	(1,355,500)	544,675	(425,889)
<u>CONTRIBUTED REVENUE:</u>					
WATER	808,385	941,963	5,690,000	605,000	9,727,250
WASTEWATER	3,199,488	3,370,761	11,762,500	3,639,000	12,278,820
RECLAIMED	326,542	450,029	1,425,000	426,500	3,736,450
	4,334,415	4,762,753	18,877,500	4,670,500	25,742,520
<u>CONTRIBUTED EXPENSES:</u>					
WATER	332,388	401,151	10,545,000	0	11,727,250
WASTEWATER	6,530,487	3,811,845	13,582,716	279,628	14,819,106
RECLAIMED	277,467	950,986	1,100,000	2,700	2,963,700
	7,140,341	5,163,983	25,227,716	282,328	29,510,056
SURPLUS/(DEFICIT)	(2,805,926)	(401,230)	(6,350,216)	4,388,172	(3,767,536)
<u>TOTAL REVENUE</u>					
WATER	7,783,401	7,780,803	13,918,543	7,524,940	17,889,371
WASTEWATER	9,245,372	10,078,859	20,149,247	10,754,700	20,919,470
RECLAIMED	394,225	557,637	1,449,483	616,500	4,053,650
	17,422,998	18,417,300	35,517,273	18,896,140	42,862,491
<u>TOTAL EXPENSES</u>					
WATER	6,919,695	6,566,699	18,188,407	6,619,538	19,805,375
WASTEWATER	13,462,217	10,308,927	23,728,482	7,301,055	24,142,240
RECLAIMED	323,459	997,781	1,306,100	42,700	3,108,300
	20,705,371	17,873,407	43,222,989	13,963,293	47,055,916
SURPLUS/(DEFICIT)	(3,282,373)	543,893	(7,705,716)	4,932,847	(4,193,425)

Table 1-3

SOURCE	Actual 2006	Actual 2007	Budgeted 2008	Estimated Actual 2008	Budgeted 2009
421 WATER REVENUE					
OPERATING REVENUE					
38100 Customer Service	6,389,237	6,114,257	7,694,243	6,242,000	7,596,940
38110 Penalties	151,492	164,575	125,000	150,000	155,000
38120 Service Charges	172,780	155,491	97,500	107,000	109,681
38130 Inspection Fees	1,000	96,989	79,800	15,000	30,000
38190 Other Service revenue	194,099	159,830	132,000	80,940	125,500
33300 Grants	-	67,844	-	-	-
36100 Interest Income	66,408	79,854	100,000	100,000	100,000
36800 Sale of Surplus Assets (Springs Prop to General)	0	0	0	225,000	45,000
Total Water Operating Revenue	6,975,016	6,838,840	8,228,543	6,919,940	8,162,121
CONTRIBUTED REVENUE					
39310 System Development (Tap) Fees	408,588	408,825	300,000	300,000	325,000
36100 Interest Income-Tap	229,635	257,503	40,000	40,000	40,000
39400 Access Fees	126,813	245,265	240,000	255,000	235,000
36100 Interest Income-Access	43,349	30,370	10,000	10,000	10,000
36200 Bond Proceeds	-	-	5,100,000	-	9,117,250
36100 Interest Income-Bonds	-	-	-	-	-
39200 Assessments	-	-	-	-	-
Total Water Contributed Revenue	808,385	941,963	5,690,000	605,000	9,727,250
Total Water Revenue	7,783,401	7,780,803	13,918,543	7,524,940	17,889,371
431 WASTEWATER REVENUE					
OPERATING REVENUE					
38100 Customer Service	5,662,105	6,432,923	8,166,247	6,774,700	8,293,100
38130 Inspection Fees	103,033	97,698	100,000	125,000	131,250
38190 Other Service Revenue	132,479	34,759	10,500	106,000	106,300
36100 Interest Income	148,267	142,719	110,000	110,000	110,000
Total Wastewater Operating Revenue	6,045,884	6,708,099	8,386,747	7,115,700	8,640,650
CONTRIBUTED REVENUE					
39310 System Development (Tap) Fees	1,683,686.00	1,568,620	1,450,000	1,795,000	1,884,750
36100 Interest Income-Tap	327,634	354,884	100,000	100,000	100,000
39400 Access Fees	1,164,555.00	1,447,257	1,200,000	1,744,000	1,831,200
36100 Interest Income-Access	23,613	-	20,000	-	-
36200 Bond Proceeds	-	-	8,747,500	-	7,778,500
36100 Interest Income-Bonds	-	-	-	-	-
39200 Assessment Revenue	-	-	245,000	-	684,370
Total Wastewater Contributed Revenue	3,199,488	3,370,761	11,762,500	3,639,000	12,278,820
Total Wastewater Revenue	9,245,372	10,078,859	20,149,247	10,754,700	20,919,470
441 RECLAIMED REVENUE					
OPERATING REVENUE					
38100 Customer Service	43,065	90,522	20,483	186,000	313,200
38110 Penalties	-	332	-	-	-
38130 Inspection Fees	-	-	-	-	-
36100 Interest Income	24,618	16,755	4,000	4,000	4,000
Total Reclaimed Operating Revenue	67,683	107,608	24,483	190,000	317,200
CONTRIBUTED REVENUE					
39310 System Development (Tap) Fees	1,354	43,521	-	11,500	158,000
36100 Interest Income-Tap	24	114	-	-	-
39400 Access Fees	320,400	390,135	325,000	415,000	614,750
36100 Interest Income-Access	4,764	16,259	-	-	-
36200 Bond Proceeds	-	-	1,100,000	-	2,963,700
36100 Interest Income-Bonds	-	-	-	-	-
Total Reclaimed Contributed Revenue	326,542	450,029	1,425,000	426,500	3,736,450
Total Reclaimed Revenue	394,225	557,637	1,449,483	616,500	4,053,650
Total Operating Revenue	13,088,583	13,654,547	16,639,773	14,225,640	17,119,971
Total Contributed Revenue	4,334,415	4,762,753	18,877,500	4,670,500	25,742,520
Total Water & Wastewater Revenue	17,422,998	18,417,300	35,517,273	18,896,140	42,862,491

Section 2: Water Systems

The Water Systems section includes the Utility Billing Division, the Water Distribution Division, and the Water Treatment Division. In general, these divisions are responsible for the operations and maintenance of the distribution system and for the production of potable water while maintaining regulatory compliance.

2.1 *Utility Billing Division*

The Utility Billing Division is responsible for the billing, collection, depositing and assessing of all fees relative to the Water Management Department. This division works in cooperation with other utility districts in collection of City revenue. This department collects all fees associated with customer service, development, connection charges, inspection fees, and other fees.

This Division works closely with the City Recorder's office to ensure the accuracy and accountability of the associated fees for water and wastewater service. Last fiscal year, three staff members were moved from this Division to the City Recorder's office to enhance work flow processes. The daily work activities have become the responsibility of the City Recorder's office, however the positions continue to be funded by revenues generated through the Water Management Department.

Through the course of Fiscal Year 2008, significant software updates have been performed, various draft standard operating procedures have been developed, and the meter reading equipment has been moved to the Water Management Service Department on Hillsboro Road to increase efficiencies in work flow. Refinements to work flow shall continue to be implemented in addition to formalization and finalization of standard operating procedures.

There is currently one vacant position in the Utility Billing Division which is in the process of being filled. The Water Management Department is not requesting any additional personnel for the Utility Billing Division for FY 2009. **Table 2-1** presents the approved position for FY 2008 and the requested positions for FY 2009.

Table 2-1: Utility Billing Staffing			
Position / Title	Pay Grade	Approved FY 2008	Requested FY 2009
Meter Reader Sr.	10	1	1
Meter Reader	9	2	2
Total		3	3

Table 2-2 presents the proposed expenditures for the Utility Billing Division.

Table 2-2

421 52101 WATER OPERATING UTILITY BILLING		Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
<u>PERSONNEL</u>						
81100	Salaries & Wages	356,635	194,458	104,944	84,730	101,830
81400	Employee Benefits	111,867	125,762	71,125	65,702	59,088
	Total Personnel	468,502	320,221	176,069	150,432	160,918
<u>OPERATIONS</u>						
82100	Transportation Charges	2,857	296	500	37	537
82200	Operating Services	966	405	1,000	0	900
82300	Notices, Subscriptions, & Publicity	882	15	0	100	100
82400	Utilities	3,835	2,174	800	2,520	2,700
82500	Contractual Services	5,618	3,235	4,000	0	4,000
82600	Repair & Maint Services	2,691	969	7,500	0	5,000
82700	Employee Programs	55	0	500	0	500
82800	Professional Development/Travel	2,609	0	1,000	0	700
83100	Office Supplies	10,461	270	600	0	400
83200	Operating Supplies	1,711	106	1,000	186	900
83300	Fuel & Mileage (Non-Travel)	6,106	5,802	7,000	5,904	7,280
83500	Equipment (<\$10,000)	5,816	11,228	3,000	0	8,000
83600	Repair & Maint Supplies	196	0	1,500	0	2,500
84000	Operational Units	0	0	390,433	390,433	390,433
85100	Prop & Liab Costs	7,410	8,727	4,014	3,647	4,194
85300	Permits & Fees	0	0	0	45	0
85500	Financial Fees	164,514	316	0	-2	0
85900	Other Business Expenses	5	-10	0	0	0
	Total Operations Budget	215,732	33,532	422,847	402,870	428,144
<u>CAPITAL</u>						
89500	Equipment (>\$10,000)	12,213	0	0	0	0
	Total Capital Budget	12,213	0	0	0	0
Total Utility Billing Budget		696,447	353,753	598,916	553,302	589,062

2.2 *Water Distribution Division*

The City of Franklin's Water Distribution Division is charged with maintaining and operating the publicly owned water network. The Division's goal is to provide dependable, economical, safe and uninterrupted service to its customers. In cooperation with the Water Plant Division, the Distribution Division provides for the distribution of potable water to domestic, commercial and industrial customers. This division is required to maintain daily, monthly and annual operational records and documents for review by the State of Tennessee and the Federal Government.

Over the course of the previous year, the Water Distribution Division completed several major projects. Some of the projects identified last year were not performed due to various factors. Master planning efforts have been on hold until a determination of the Water Treatment Plant expansion is made. Additionally, more cost-effective alternatives have been employed to address the need for some projects identified in FY 2008. Some of the projects completed or started in FY 2008 include:

- Continued refinement with the use of Hansen software,
- Upgraded the Acton Street water line,
- Continued implementation of commercial and fire-line backflow inspection programs,
- Continued development of standard operating procedures and work flow processes,
- Made additional modifications of the Cross Connection Control Plan which will be brought to the BOMA for review in the near future,
- Worked closely with the development community to complete design of Goose Creek Area Improvements,
- Bidding of the 2 million gallon Goose Creek Water Tank,
- Completed design of the Columbia Avenue transmission main,
- Near design completion of Hillsboro Road water line improvements,
- Installation of the Carters Creek Tank altitude valve to enable greater pressurization of the system in the southern area of the City.

For the upcoming year the division anticipates executing a number of projects, including:

- Continued refinements to the backflow inspection program,
- Perform Goose Creek Area Improvements,
- Construction of 2 million gallon water tank in Goose Creek area,
- Enhance SCADA to provide for better system operations,

- Install automatic flushing devices for DBP control and enhanced unidirectional flushing program,
- Improvements to the Granbury Street water line to improve fire flows,
- Perform improvements on Plaza Street in conjunction with the Police Department Headquarters project.

The Water Distribution Division is requesting several modifications to staffing. These refinements include reclassification of the Heavy Equipment Operators to Utility Crew Chiefs, a new position. This request is being made in order to adequately compensate these operators for the work and responsibility they currently perform including project oversight, supervision of crews, regulatory and compliance activities.

The Water Distribution Division is also requesting two Backflow Assembly Inspector positions to support the Backflow Inspector Senior with the intent to hire in November 2009. The Department and the Division wish to bring inspection and testing services in-house in order to gain better control, allow for more customer interaction, and to ultimately reduce the risks associated with cross connections. Currently backflow inspections and testing is performed with a contractor charging customers \$38 per test. The contract for these services ends in December 2009. The Division anticipates approximately 1,400 devices to be tested with approximately 2,000 tests to be performed (includes retests). Should the Division perform the tests in-house, the revenues generated would be approximately \$76,000 using the existing fee structure. Other considerations such as test equipment and vehicles can be accommodated with existing equipment.

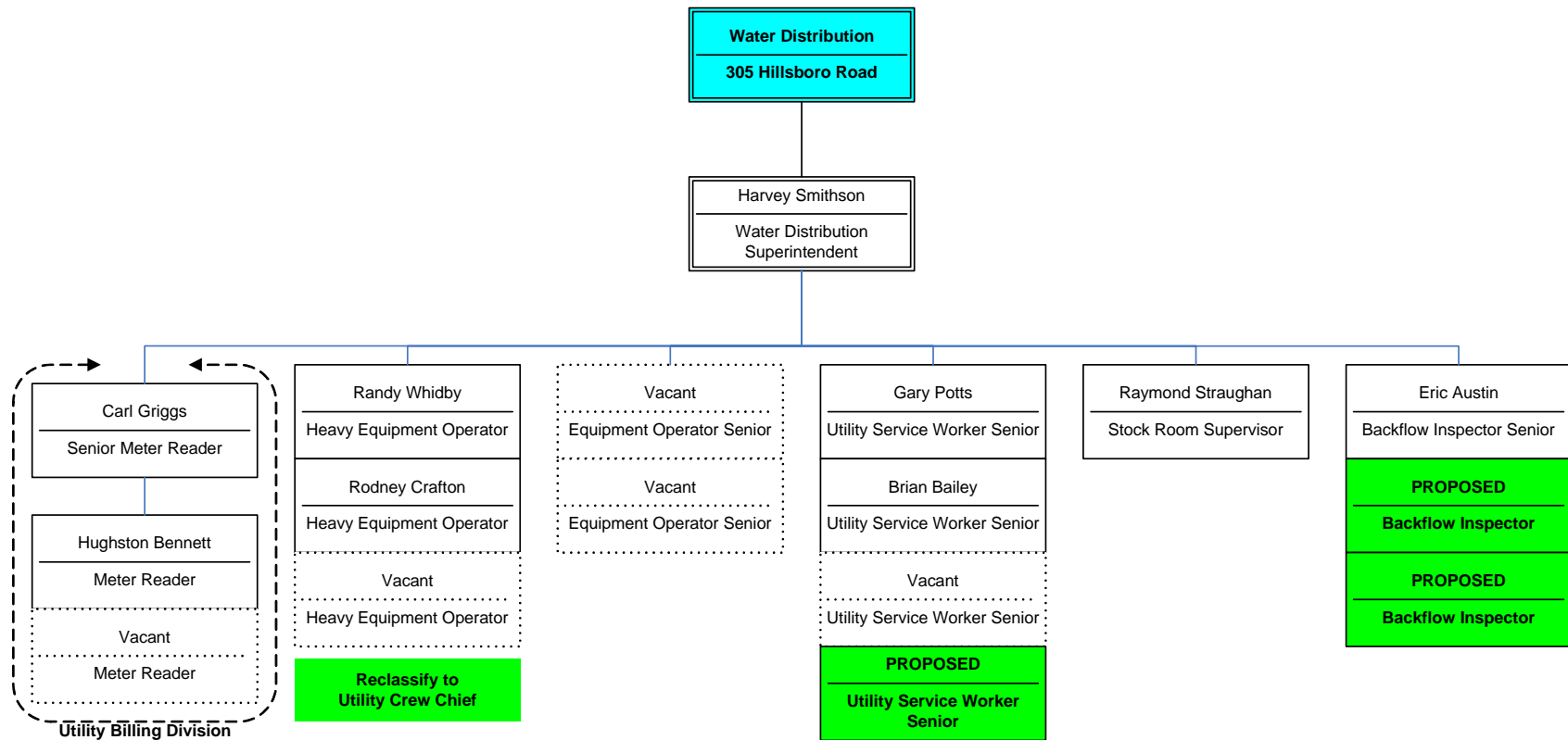
Finally, the Division would like to remove the Construction Supervisor and the Summer Temporary (2) help positions. This results in a the same number of staffing but allows for better deployment of resources.

Table 2-3 presents the approved positions in the Water Distribution Division, their associated pay grades and the number of employees for each position as well as the requested number of positions for FY 2009.

Table 2-3: Water Distribution Staffing			
Position / Title	Pay Grade	Approved FY 2008	Requested FY 2009
Water Distribution Superintendent	20	1	1
Backflow Inspector Sr.	17	1	1
Backflow Inspector	12 (estimated)	0	2
Construction Supervisor	16	1	0
Heavy Equipment Operator	12	3	0
Utility Crew Chief	13	0	3
Equipment Operator Senior	11	2	2
Utility Service Worker Sr.	10	3	4
Stock Room Supervisor	12	1	1
Summer Temp (Part Time)	n/a	2	0
Total		14	14

Figure 2-1 presents the organization of the Water Distribution Division.

Figure 2-1
Water Management Department
Water Distribution Division



There are various items in the Water Distribution Division budget that warrant additional information that may be useful to the Board of Mayor and Aldermen, Administration, and for public inspection. These items are presented in **Table 2-4**.

Table 2-4: Water Distribution Supplemental Information		
Budget Code	Description	Notes
82540	Engineering Services	The engineering services presented are for current contracts and provide the ability to carry over to the FY 2009 budget. These contracts were generated due to various reasons such as regulatory compliance or to evaluate various scenarios for capital improvements
82560	Consultant Services	The key item in this budget code is SCADA improvements. This item, also budgeted for last year, was not performed in FY 2008 to provide for the benefit of water distribution system master planning. It is anticipated that this SCADA item, as well as the other divisions' SCADA items will be performed upon completion of master planning efforts.
82630	Hydrant Maintenance Services	The budget for this item was generated based on flow testing performed by the Franklin Fire Department as well as hydrant flushing performed by the Water Management Department. These activities identified hydrants that required certain levels of repairs or further inspection. It is important to mention that the hydrants identified during these activities are not necessarily inoperative but in need of maintenance.
82683	Water Tank Maintenance Services	The monies presented in this budget item are intended for the painting of the Curd Lane Reservoir. This need was identified in tank inspections performed in FY 2008.
83680	Meter Repair and Replacement Supplies	The meter readers and Utility Billing utilize manual and radio read meters in order to collect the data for billing. The Assistant City Records Office and the Water Management Department have been working towards restoring the existing radio read meters and installing new radio read meters in order to have the entire system functioning with radio read capability.

Table 2-5 presents the proposed expenditures for the Water Distribution Division

Table 2-5

421 52102	WATER OPERATIONS WATER DISTRIBUTION	Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
	PERSONNEL					
81100	Salaries & Wages	333,228	317,750	429,066	325,390	538,260
81400	Employee Benefits	98,195	217,770	603,681	189,877	290,372
	Total Personnel	431,423	535,520	1,032,747	515,267	828,632
	OPERATIONS					
82100	Transportation Charges	1,590	555	2,190	965	1,450
82200	Operating Services	10,014	4,129	6,600	4,775	5,200
82300	Notices, Subscriptions, Publicity	548	502	900	720	1,600
82400	Utilities	51,670	69,234	66,800	84,654	93,135
82500	Contractual Services	6,069	99,070	205,500	82,124	296,870
82600	Repair & Maintenance Services	36,027	31,898	57,000	40,900	210,500
82700	Employee Programs	1,969	255	3,000	2,200	3,500
82800	Professional Development/Travel	7,665	3,239	10,300	7,000	10,600
83100	Office Supplies	1,262	1,712	2,000	2,700	2,200
83200	Operating Supplies	104,373	70,322	77,700	12,900	12,325
83300	Fuel & Mileage (Non-Travel)	17,261	16,167	20,000	19,000	19,760
83500	Equipment (<\$10,000)	7,572	11,580	6,000	18,400	10,500
83600	Repair & Maintenance Supplies	467,796	150,452	393,000	367,550	402,500
85100	Property and Liability Costs	17,727	15,298	14,902	14,880	17,612
85200	Rentals	329	2,046	250	1,000	1,900
85300	Permits & Fees	22,780	613	22,000	19,025	20,050
85900	Other Business Expenses	(566)	0	200	0	500
	Total Operations	754,086	477,071	888,342	678,793	1,110,202
	CAPITAL					
89200	Buildings	0	44,900	20,000	0	0
89300	Improvements	10,237	48,023	145,000	0	0
89500	Equipment (>\$10,000)	63,340	103,771	68,500	0	130,000
	Total Capital	73,577	196,694	233,500	0	130,000
	TOTAL WATER DISTRIBUTION	1,259,086	1,209,285	2,154,589	1,194,060	2,068,834

Note: The 2008 budgeted employee benefits of \$603,681 were researched by staff. A lesser amount of \$239,508 was intended to be the budgeted amount, which is \$364,173 less. The overage was due to this one formula inadvertently including a portion of wages in the employee benefit amount.

2.3 *Water Treatment Division*

The City of Franklin's Water Treatment Plant is located on US 431 South. The daily effective capacity for the treatment plant is approximately 2.25 million gallons of potable water per day. The plant is dependent on the Harpeth River for the raw water supply.

During the most intense part of the drought in the summer of 2007 (July through October), the plant produced an average of 0.64 million gallons per day (MGD). Since November 2007, the daily output for the treatment facility averaged approximately 2.15 million gallons per day. Since the beginning of FY 2008 through present, the average daily customer demand was 5.8 million gallons per day. In order to meet customer demand, it is necessary for the department to supplement the water produced by our plant with water purchased from Harpeth Valley Utilities District. Harpeth Valley Utilities District (HVUD) is located on the Cumberland River in Davidson County. The supplemental water is supplied to the City of Franklin through two (2) major connection points with HVUD. The first of these taps is located at the intersection of Hillsboro Road and Sneed Road. This water supply point was upgraded in August 2007 with the addition of a second 10 inch meter with provisions for one (1) additional 10 inch meter. This meter feeds a network of 36 inch water transmission mains that primarily feed the northern and eastern portion of the City's service area. Currently, the Department is working toward enhancing this connection point to improve water availability from HVUD. The second HVUD water supply point is a ten-inch (10") water meter located on Old Natchez Trace Road. This supply point is connected to two (2), 24 inch transmission mains to the City's water network.

The Water Treatment Plant received an Aquatic Water Resource Permit (ARAP) from TDEC for withdrawal of water from the Harpeth River at the end of 2007. The City applied for an ARAP permit in September 2006 in order to provide for necessary upgrades to the facility. To meet the conditions of the ARAP, the Department is conducting a feasibility study to determine if it is practicable to remove the lowhead dam downstream of the plant's intake structure. Additionally, the Department has hired a consultant to evaluate the economic analysis to detailing the costs to expand the existing facility.

Though the Water Treatment Division did not undertake major capital projects, a number of significant tasks were performed in FY 2008, some of which are presented below:

- In a coordinated effort with the Water Distribution Division, received a score of 88 on the TDEC's Sanitary Survey conducted in February 2008.
- Completed construction of a new lab, conference room, office space and entrance to provide for more security and functionality,
- Started the process to upgrade the meter vaults to improve the City's ability to receive water from HVUD,
- Began monitoring for cryptosporidium (LT2 rule) for TDEC/EPA compliance with SDWA,
- Began DBPR second stage monitoring for TDEC/EPA compliance,
- Preparation for UCMR 2 monitoring for TDEC/EPA compliance.

The Water Treatment Plant, through coordination with TDEC, figuratively broke new ground in August and September of 2007 by re-treating finished water from the HVUD. System chlorine residuals had dropped below 0.5 ppm (regulatory lower limit of 0.2 ppm) in certain parts of system and taste and odor complaints increased due to a geosmin problem from the Cumberland River. Staff decided to run HVUD finished water through the entire treatment process to not only boost chlorine residuals, but to address the geosmin problem. With assistance from TDEC and the Franklin Fire Department, finished water was directed to the pretreatment tank of the plant. Once the configuration and water quality stabilized, the Franklin Water Treatment Plant started distributing retreated water to the system, totaling approximately 25 million gallons throughout the next several weeks. As a result, chlorine residuals increased above one ppm in most areas of the system with no readings below 0.5 ppm. Taste and odor complaints for areas hydraulically served by the plant stopped. This process enabled the Franklin Water Treatment and Distribution Divisions to continue serving water without any disinfectant violations.

In FY 2009 this division anticipates performing multiple projects most of which are compliance driven as a part of the Safe Drinking Water Act Regulations. Other projects will result in more effective operation of the water treatment facility today and in the future. A short list of these key projects is presented below.

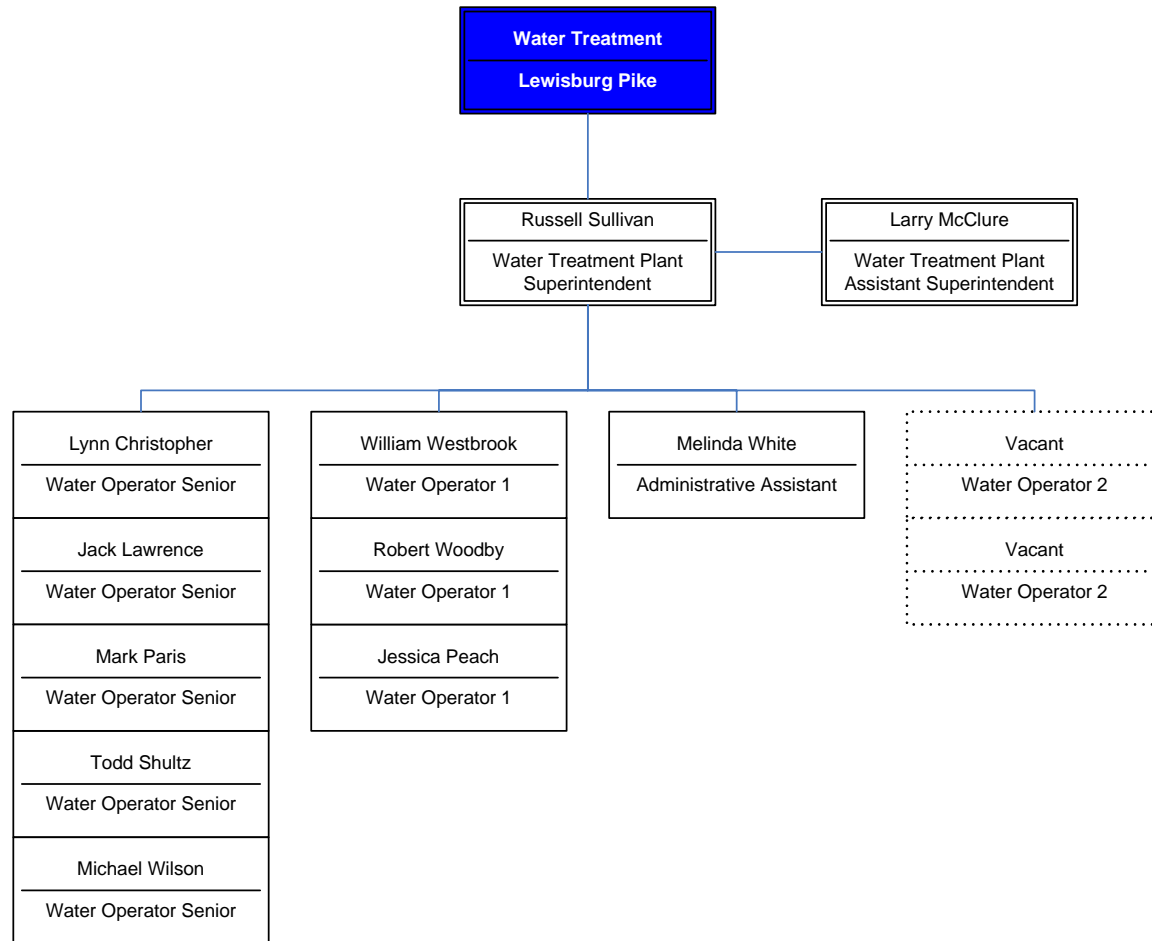
- Harpeth River flow monitoring station,
- Variable speed drive on raw water intake pumps,
- Completion of dam feasibility study,
- Determination of plant upgrade and start of the projects required based on this decision,
- Continue to meet the monitoring requirements for TDEC and EPA compliance.

There are no personnel requests or reclassifications for FY 2009. As presented, there are currently three Water Operator 1 positions filled (2 budgeted) and zero Water Operator 2 positions filled (2 budgeted). The Water Operator 2 positions were conceived in FY 2008 to accommodate professional development and growth of staff. It is anticipated that these positions will be filled in FY 2009 while bringing the number of filled Water Operator 1 positions back to two. **Table 2-6** presents the approved positions in the Water Treatment Divisions, their associated pay grades and the number of requested employees for FY 2009.

Table 2-6: Water Treatment Staffing			
Position/ Title	Pay Grade	Approved FY 2008	Requested FY 2009
Water Plant Superintendent	20	1	1
Assistant Plant Superintendent	18	1	1
Water Operator Sr.	16	5	5
Water Operator 2	14	2	2
Water Operator I	11	2	2
Administrative Assistant	12	1	1
Total		12	12

Figure 2-2 presents the organization of the Water Treatment Division.

Figure 2-2
Water Management Department
Water Treatment Division



As with the Water Distribution Division Budget, there are various items in the Water Treatment Division budget that warrant additional information that may be useful to the Board of Mayor and Alderman, Administration, or public inspection. These items are presented in **Table 2-7**.

Table 2-7: Water Treatment Supplemental Information		
Budget Code	Description	Notes
82540	Engineering Services	The engineering services presented are for the lowhead dam feasibility study, required as part of the ARAP, a seasonal booster station design and a current contract that will carry over to FY 2009.
83410	Water Purchased for Resale	The projected expenditures for FY 2008 are \$3,150,000 based on available information. These expenditures occurred throughout FY 2008, including the extraordinary drought experienced in the summer of 2007. It is anticipated that the purchase volume for FY 2009 will not increase from this number but likely remain flat with a strong potential to decrease.
89530	Machinery & Equipment	It is noteworthy that the items identified in this area are provided for as precautionary measures. The items include replacement of the Traveling Screen and Filter Rate of Flow Valves. There is a potential that these items may not require replacement during the course of FY 2009 however it is prudent to plan for them. Additionally, this item includes Water Disinfection Upgrades (Conversion from Chlorine to Bleach Disinfection). There are regulatory and water quality drivers that are leading the Division in this direction however it may not be necessary during FY 2009.

Table 2-8 presents the proposed expenditures for the Water Treatment Division.

Table 2-8

421	WATER OPERATIONS					
52103	WATER PLANT					
		Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
	<u>PERSONNEL</u>					
81100	Salaries & Wages	447,024	458,542	552,542	460,110	521,950
81400	Employee Benefits	142,057	255,050	263,236	255,800	275,875
	Total Personnel	589,081	713,592	815,778	715,910	797,825
	<u>OPERATIONS</u>					
82100	Transportation Charges	467	1,161	1,250	2,825	2,700
82200	Operating Services	47,962	48,382	19,300	32,900	33,400
82300	Notices, Subscriptions, Publicity	1,657	1,054	250	665	700
82400	Utilities	109,662	117,843	107,050	109,787	122,214
82500	Contractual Services	6,872	31,914	40,000	22,300	152,515
82600	Repair & Maintenance Services	42,785	36,769	38,000	67,300	69,400
82700	Employee Programs	1,405	160	300	10	400
82800	Professional Development/Travel	4,833	1,721	2,855	1,300	2,050
83100	Office Supplies	6,527	2,850	3,750	4,963	3,600
83200	Operating Supplies	150,860	147,583	148,950	101,392	126,750
83300	Fuel & Mileage (Non-Travel)	5,054	6,123	5,000	13,000	13,520
83400	Supplies for Resale	2,877,278	2,852,975	3,000,000	3,150,000	3,150,000
83500	Equipment (<\$10,000)	58,144	18,936	13,150	20,300	9,500
83600	Repair & Maintenance Supplies	16,083	24,766	10,450	20,820	21,000
85100	Property and Liability Costs	21,657	18,799	10,933	9,952	11,445
85200	Rentals	35	117	0	0	0
85300	Permits & Fees	495	25,090	2,000	800	1,500
85900	Other Business Expenses	0	51	1,500	0	500
	Total Operations	3,351,776	3,336,294	3,404,738	3,558,314	3,721,194
	<u>CAPITAL</u>					
89200	Buildings	0	12,166	13,000	0	25,000
89500	Equipment (>\$10,000)	8,193	52,208	32,000	0	270,000
	Total Capital	8,193	64,374	45,000	0	295,000
	TOTAL WATER PLANT	3,949,050	4,114,260	4,265,516	4,274,224	4,814,018

2.4 Water General Expenses and Capital Improvements

Expenditures categorized as Water Operating General Expenses and those identified as Capital Improvements are presented in **Tables 2-9** and **2-10**.

Table 2-9

421 52109 WATER OPERATING WATER - GENERAL EXPENSES		Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
<u>PERSONNEL</u>						
81400	Employee Benefits	321,017	7,687	0	1,882	1,882
	Total Personnel	321,017	7,687	0	1,882	1,882
<u>OPERATIONS</u>						
82200	Operating Services	341	0	0	0	0
82300	Notices, Subscriptions & Publicity	2,409	698	3,000	0	0
82400	Utilities	0	788	0	1,392	0
82500	Contractual Services	32,698	24,813	35,000	10,925	12,253
82600	Repair and Maintenance Services	0	0	0	900	0
82800	Professional Development/Travel	0	0	0	0	0
83500	Equipment (<\$10,000)	12,231	0	0	0	0
83600	Repair and Maintenance Supplies	0	0	0	0	0
84000	Operational Units	90,000	401,874	401,874	401,874	401,874
85100	Property and Liability Costs	5,000	0	0	0	0
85200	Rentals	0	0	0	481	150
85300	Permits and Fees	0	0	0	38	0
85500	Financial Fees	13,865	35,251	40,000	40,090	50,000
85900	Other Business Expenses	11,188	743	0	55	0
86000	Debt Service	186,854	16,394	144,511	140,315	140,052
89200	Buildings	0	0	0	0	0
	Total Operations	354,588	480,562	624,385	596,070	604,329
<u>CAPITAL</u>						
89500	Equipment (>\$10,000)	7,120	0	0	0	0
	Total Capital	7,120	0	0	0	0
TOTAL WATER-GENERAL EXPENSES		682,724	488,249	624,385	597,952	606,211

Table 2-10

WATER CAPITAL IMPROVEMENTS

422	WATER ACCESS	Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
	<u>OPERATIONS</u>					
82500	Contractual Services	86,447	60,414	0	0	0
85300	Permits & Fees	0	165	0	0	0
86000	Debt Service	0	0	0	0	0
	Total Operations	86,447	60,579	0	0	0
	<u>CAPITAL</u>					
89110	Land	0	2,897	0	0	0
89200	Buildings	210,797	118,783	0	0	0
89300	Improvements	0	139,512	0	0	2,000,000
	Total Capital	210,797	261,192	0	0	2,000,000
	TOTAL WATER ACCESS	297,244	321,771	0	0	2,000,000
423	WATER TAPS	Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
	<u>OPERATIONS</u>					
82500	Contractual Services	0	34,005	0	0	0
86000	Debt Service	0	0	0	0	0
	Total Operations	0	34,005	0	0	0
	<u>CAPITAL</u>					
89200	Buildings	0	45,375	805,000	0	0
89300	Improvements	35,144	0	4,640,000	0	610,000
89500	Equipment (>\$10,000)	0	0	0	0	0
	Total Capital	35,144	45,375	5,445,000	0	610,000
	TOTAL WATER TAPS	35,144	79,380	5,445,000	0	610,000
424	WATER BONDS	Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
	<u>CAPITAL</u>					
89200	Buildings	0	0	0	0	0
89300	Improvements	0	0	5,100,000	0	9,117,250
	Total Capital	0	0	5,100,000	0	9,117,250
	TOTAL WATER BONDS	0	0	5,100,000	0	9,117,250

Section 3: Wastewater Systems

The Wastewater Systems section includes the Utility Administration Division, the Wastewater Collection Division, and the Wastewater Treatment Division. In general, these divisions are responsible for the operations and maintenance of the distribution system and for production of potable water while maintaining regulatory compliance.

3.1 Utility Administration Division

The Water Management Department's Administration Division provides management and planning for the Department and provides oversight for its operational divisions. The department's planning is coordinated through close consultation with the City's Engineering Department with additional prevailing oversight from City Administration. This Division is responsible for development, administration and construction of the Department's capital projects and review, inspection and acceptance of development projects within the City's water and wastewater service areas.

The Administration Division has been focusing on a number of issues including building and maintaining relationships with regulatory agencies to ensure the department is progressing in the right direction. Other focus areas include development of planning documents such as the water, wastewater and reclaimed water master plans, and work towards developing standard operating procedures and work flow as well as revising numerous policies.

Much of the work begun over the past year is ongoing and will remain the focus of the Administration Division. In addition to these policy revisions, Administration will continue to refine capital project planning, operations to improve efficiency, customer service, and policies to accommodate anticipated changes in the regulatory community. Administration will maintain focus on assisting the Water Treatment Division implement treatment and sampling strategies to meet the new Long Term 2 Surface Water Treatment Rule, the new Microbial and Disinfection By-Products Rules, and to oversee design and construction of the new water treatment facilities along with engineering. The Administration Division also anticipates oversight in completing construction of the Goose Creek Basin - Phase II Interceptor, completing construction of the Five Mile Creek Basin Interceptor and completing construction of a number of Goose Creek Area wastewater improvements. Each of these major projects are significant components in the planning and development strategy of the City relative to the urban growth boundary. Reclaimed water lines are also included in the design and construction of the Goose Creek Basin wastewater collection

system projects as a means of reducing the long term cost of reclaimed water system development.

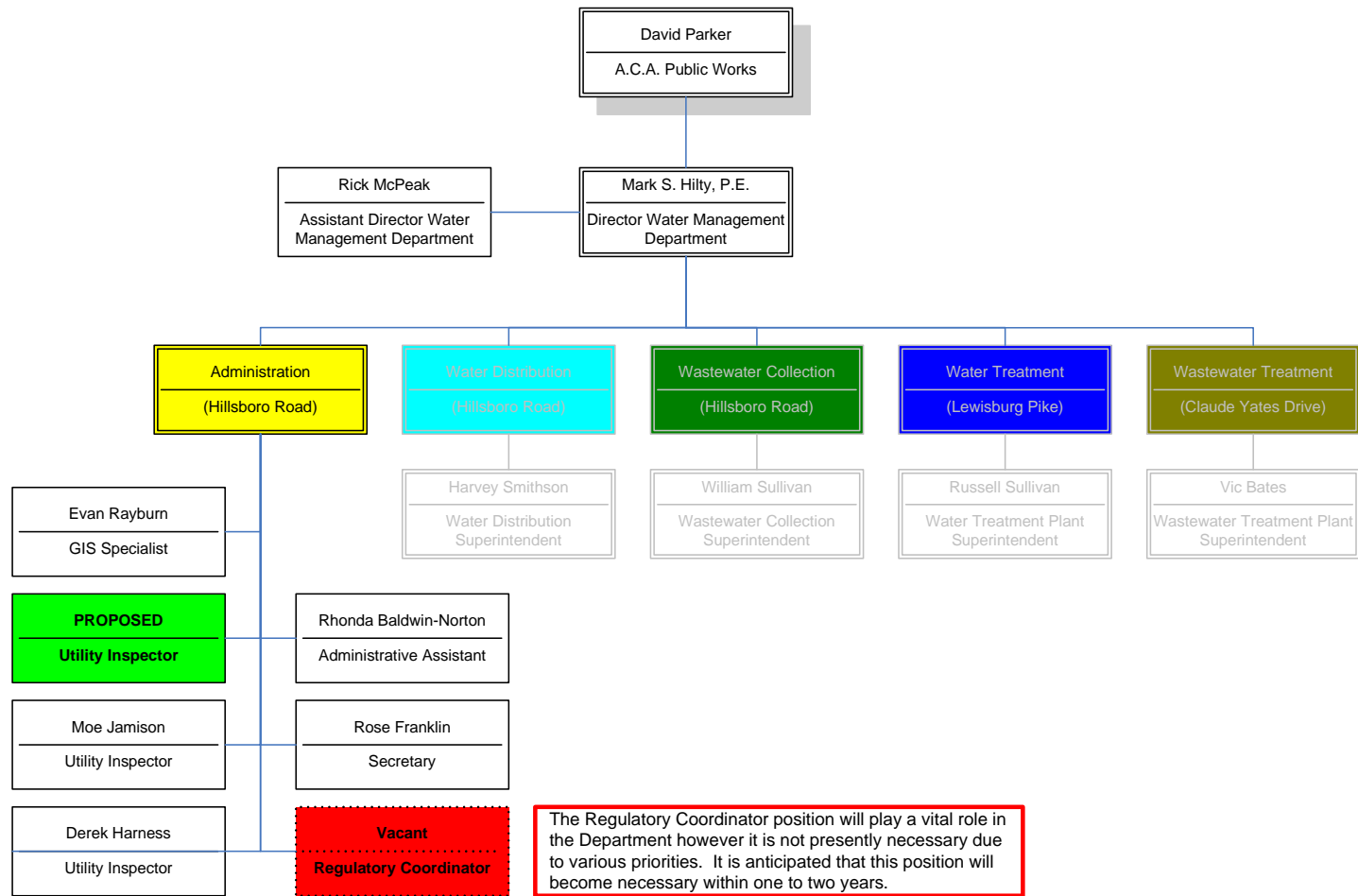
Table 3-1 presents the staffing of the Utility Administration Division. The Utility Administration Division is fully staffed with the exception of the Regulatory Coordinator position. The Regulatory Coordinator position was conceived in FY 2008 to assist with regulatory compliance and refinements of policies and communications. It is anticipated that this position will become necessary within the next one to two years, therefore funding for this position in FY 2009 has been eliminated.

Additionally, Utility Administration requests that a third utility inspector be hired to offset the costs of hiring consulting firms to perform inspections and to provide for enhanced service for utility inspections.

Table 3-1: Utility Administration Staffing			
Position / Title	Pay Grade	Approved FY 2008	Requested FY 2009
Director	25	1	1
Assistant Director	23	1	1
GIS Specialist Sr.	19	1	1
Utility Inspector	17	2	3
Regulatory Coordinator	14	1	0
Administrative Assistant	12	1	1
Secretary	9	1	1
Total		8	8

Figure 3-1 presents the organization of the Utility Administration Division.

Figure 3-1
Water Management Department
Utility Administration Division



Additional information is provided for code 82560 of the Utility Administration Division budget as well. Details are presented in **Table 3-2**.

Table 3-2: Utility Administration Supplemental Information		
Budget Code	Description	Notes
82560	Consultant Services	The bulk of this item is for a feasibility study for a Water Administration and Services facility. The RFQ for this item is currently released. Funding, provided for in FY 2008 is being carried over to FY 2009.

Table 3-3 presents the proposed expenditures for the Utility Administration Division

Table 3-3

431	WASTEWATER OPERATIONS					
52211	UTILITY ADMINISTRATION					
		Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
	PERSONNEL					
81100	Salaries & Wages	197,136	223,611	295,502	271,850	403,480
81400	Employee Benefits	69,972	118,018	114,437	141,630	178,731
	Total Personnel	267,108	341,629	409,939	413,480	582,211
	OPERATIONS					
82100	Transportation Charges	1,134	49	860	320	350
82200	Operating Services	2,274	1,440	3,000	2,550	2,400
82300	Notices, Subscriptions, Publicity	15,837	14,234	21,600	9,670	11,100
82400	Utilities	6,621	10,194	10,010	11,198	11,310
82500	Contractual Services	53,510	12,550	43,500	0	44,000
82600	Repair & Maintenance Services	5,925	6,278	9,000	4,300	5,200
82700	Employee Programs	447	116	500	45	200
82800	Professional Development/Travel	1,105	1,557	11,410	9,800	11,800
83100	Office Supplies	5,795	5,084	3,150	5,250	4,150
83200	Operating Supplies	1,497	1,664	2,075	3,520	3,050
83300	Fuel & Mileage (Non-Travel)	2,119	2,511	3,200	4,204	5,300
83500	Equipment (<\$10,000)	450	1,053	6,600	731	10,350
83600	Repair & Maintenance Supplies	1,180	1,763	2,000	1,290	1,300
85100	Property and Liability Costs	17,971	15,666	2,380	2,157	2,481
85200	Rentals	20	66	100	100	100
85300	Permits & Fees	2,000	21,155	27,000	3,000	4,000
85900	Other Business Expenses	0	0	0	350	500
	Total Operations	117,885	95,380	146,385	58,485	117,591
	CAPITAL					
89200	Buildings	0	0	54,000	0	32,000
89500	Equipment (>\$10,000)	19,232	33,217	52,800	63,837	0
	Total Capital	19,232	33,217	106,800	63,837	32,000
	Total Utility Administration Budget	404,225	470,226	663,124	535,802	731,802

3.2 Wastewater Collection

This Division of the Water Management Department is responsible for the operation and maintenance of the wastewater collection system including gravity sewer lines, force main lines and sewage lift stations located throughout the service area. Under this division, there are crews that are assigned to the replacement and extension of the wastewater collection system which collects and transports wastewater to the treatment plant. It is anticipated that this Division will be facing an increasing workload in order to maintain compliance with EPA's Capacity Management Operation Maintenance (CMOM) Initiative requirements.

Several projects budgeted for FY 2008 were not completed due to current master planning work being performed. It is anticipated that this master planning effort will refine project scopes and direction, resulting in a more appropriate expenditures of revenues. Additionally, a wet weather analysis identified for last year as consulting services will be performed in-house. Some of the significant projects for last year include the following:

- Near completion to the upgrade of Founders Pointe sewage lift station ,
- Emergency repair of a sewer line near Fair Street and 7th Avenue,
- Improvements to the Carters Creek Pike Lift Station,
- Near completion of wastewater master plan,
- Completion of Goose Creek Phase I interceptor sewer,
- Beginning construction of the Goose Creek Phase II interceptor sewer,
- Numerous maintenance activities.

Some of the anticipated projects for FY 2009 include:

- Installation of permanent flow monitoring stations based on master planning efforts
- Study to enhance SCADA capabilities,
- Completion of collection system master planning,
- Upgrades to Carters Creek Pump Station,
- Refine infrastructure replacement program planning through detailed inspection program
- Provide sewer service to various areas of the City not currently being served, such as Highgate, Hooper Lane, etc.

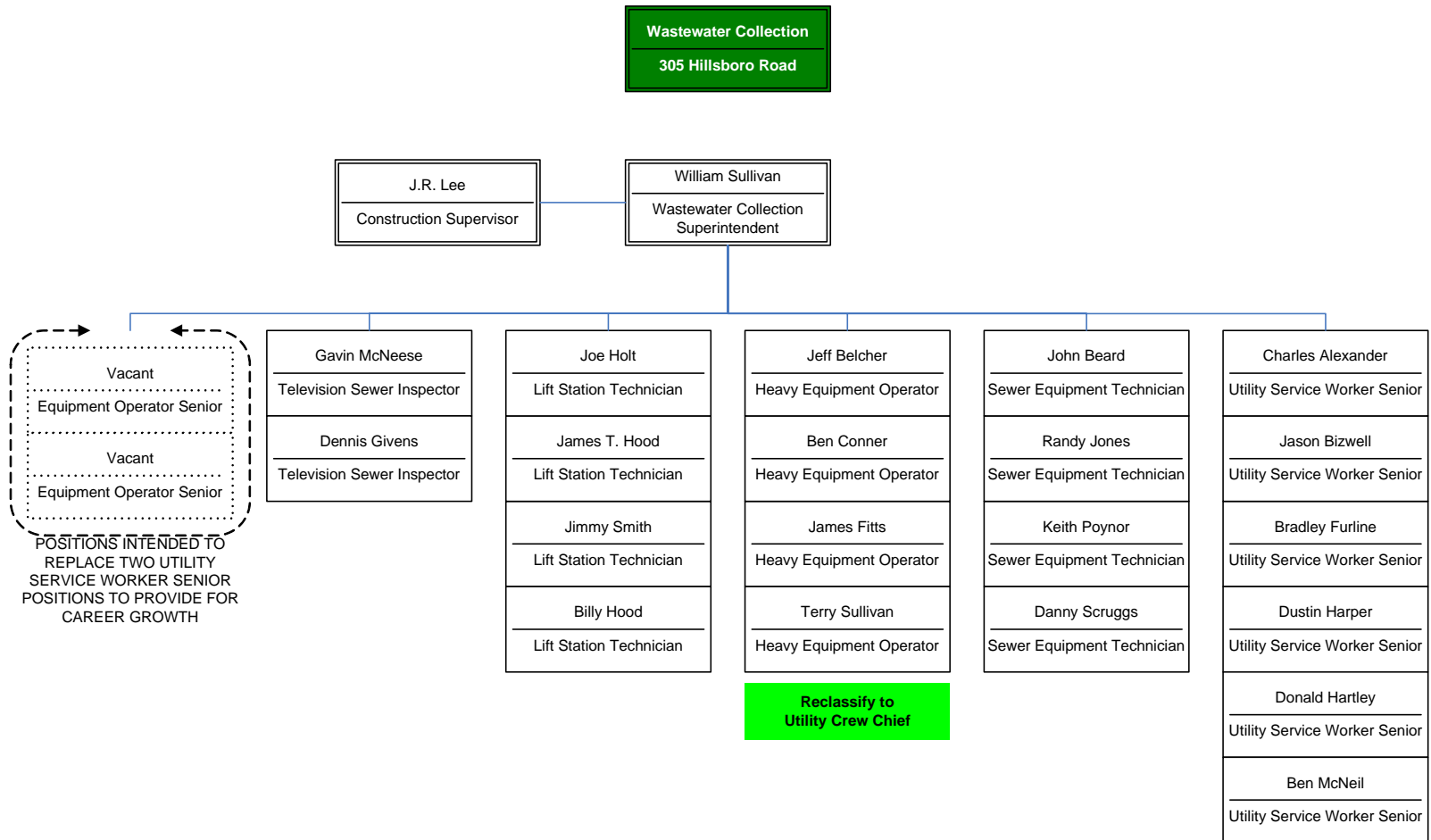
Table 3-4 presents the approved positions for FY 2008 and the requested position for FY 2009. The Division is requesting that the temporary positions and the utility worker position be eliminated. Similar to the Water Distribution

Division, the Wastewater Collections Division is requesting reclassification of the Heavy Equipment Operators to appropriately compensate them for the work performed. The pay grade for this position was received on May 27, 2008 through the Human Resources Department as a 13 versus the estimated pay grade of 14 in personnel expenditures. At that time, the proposed budget was in the process of production for review by the BOMA. This will be addressed in future drafts submitted to the Board.

Table 3-4: Wastewater Collection Staffing			
Position / Title	Pay Grade	Approved FY 2008	Requested FY 2009
Collection Superintendent	20	1	1
Construction Supervisor	16	1	1
Lift Station Operator	14	4	4
Heavy Equipment Operator	12	4	0
Utility Crew Chief	13	0	4
Television Sewer Inspector	15	2	2
Equipment Operator	11	2	2
Sewer Equipment Technician	11	4	4
Utility Service Worker Sr.	10	4	4
Utility Service Worker	8	1	0
Summer Temp	n/a	2	0
Total		25	22

Figure 3-2 presents the organization of the Wastewater Collection Division.

Figure 3-2
Water Management Department
Wastewater Collection Division



Additional information is provided items in the Wastewater Collection Division budget as well. These items are included in **Table 3-5**.

Table 3-5: Wastewater Collection Supplemental Information		
Budget Code	Description	Notes
83221	Odor Control Chemicals	The chemicals costs have declined considerably due to alternative odor control methodologies
83299	Other Operating Supplies	This item is being captured in other areas of the budget to provide for better detail of expenditures.
83550	Computer Software (<\$10,000)	This item contains seven software components to upgrade the sewer inspection truck software. The existing software is dated. The new software will provide for database connections with Hansen and GIS, enabling the equipment to be used to full potential.

Table 3-6 presents the proposed expenditures for the Wastewater Collection Division.

Table 3-6

431 52212 WASTEWATER OPERATIONS WASTEWATER COLLECTION		Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
PERSONNEL						
81100	Salaries & Wages	784,311	865,257	950,111	903,930	953,600
81400	Employee Benefits	214,320	500,989	481,982	467,364	481,044
	Total Personnel	998,631	1,366,246	1,432,093	1,371,294	1,434,644
OPERATIONS						
82100	Transportation Charges	1,041	1,001	1,950	554	1,150
82200	Operating Services	6,720	5,014	6,600	6,020	6,500
82300	Notices, Subscriptions, Publicity	2,902	663	3,150	750	750
82400	Utilities	77,044	108,649	114,750	106,864	120,500
82500	Contractual Services	882	7,675	476,500	60,000	304,400
82600	Repair & Maintenance Services	84,901	123,398	126,000	111,942	114,000
82700	Employee Programs	0	1,256	1,000	0	1,000
82800	Professional Development/Travel	1,295	264	8,500	1,360	1,800
83100	Office Supplies	1,583	1,914	2,100	1,582	1,700
83200	Operating Supplies	49,266	23,630	78,150	18,352	16,125
83300	Fuel & Mileage (Non-Travel)	41,112	40,607	43,000	52,222	57,200
83500	Equipment (<\$10,000)	2,199	4,118	6,250	4,085	37,250
83600	Repair & Maintenance Supplies	92,784	71,716	154,800	93,280	110,200
85100	Property and Liability Costs	24,729	27,701	24,694	20,591	25,680
85200	Rentals	1,054	969	1,000	550	1,000
85300	Permits & Fees	391	328	3,000	1,000	3,000
85900	Other Business Expenses	45	(10)	100	0	100
	Total Operations	387,948	418,893	1,051,544	479,152	802,355
CAPITAL						
89200	Buildings	0	0	0	0	0
89300	Improvements	57,139	88,884	75,000	0	80,000
89500	Equipment (>\$10,000)	300,328	146,588	101,500	0	174,900
	Total Capital	357,468	235,472	176,500	0	254,900
Total Wastewater Collection Budget		1,744,047	2,020,611	2,660,137	1,850,446	2,491,898

3.3 *Water Reclamation Division*

The City of Franklin presently operates an activated sludge treatment facility located at 135 Claude Yates Drive. The City of Franklin presently has a National Pollutant Discharge Elimination System Permit (NPDES) for treatment and discharge of twelve (12) million gallons of treated effluent per day. Limits and procedures were incorporated into the NPDES Permit that allows the City of Franklin to operate a reclaimed water network. This Division is facing increasing regulatory constraints from EPA and TDEC in the area of Local Limit Loading Reductions to the Harpeth River and additional Capacity Management Operation Maintenance (CMOM) Initiative requirements.

The City has applied for renewal of the NPDES permit however is waiting TDEC to process it. As a result, various projects planned for last year were not completed such as additional nutrient removal and biosolids management improvements. Last year the Water Reclamation Division completed a number of significant projects most of which are a part of a necessary maintenance cycle. Some of the projects completed include:

- Ultra-Violet Lamp annual replacement/maintenance
- Continuation of the Fats, Oils & Grease (FOG) pretreatment program implementation
- Completion of the new reclaimed water pump station
- Completion of maintenance shop improvements
- Purchase portable generator for Facility

Projects anticipated for FY 2009 include:

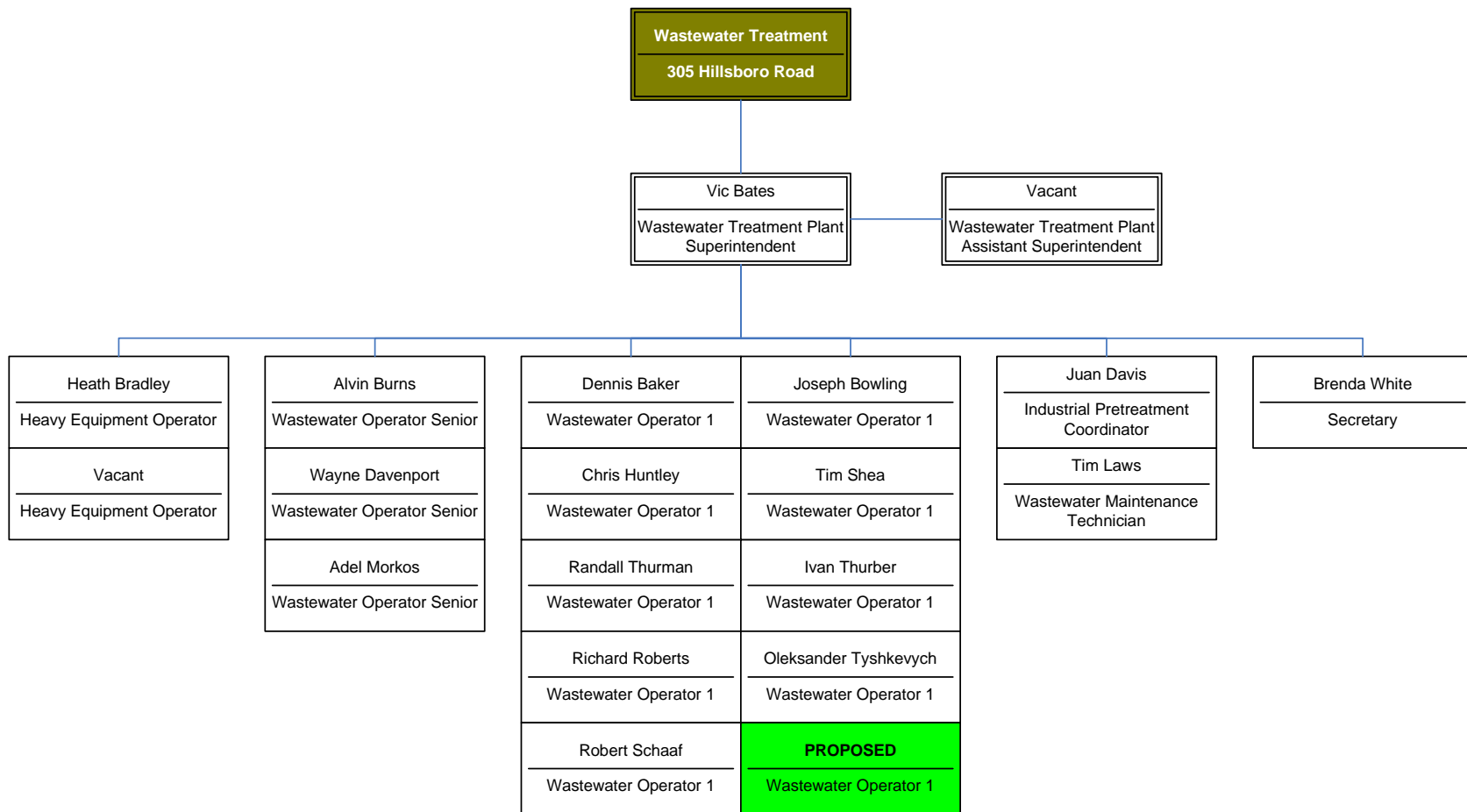
- Continued implementation of the Fats, Oils & Grease (FOG) pretreatment program
- Updates to the Sewer Use Ordinance to accommodate regulatory changes. Proposed changes have been drafted and are currently being reviewed by TDEC.
- Implementation of plant automation/SCADA as recommended in Department Audit
- Beneficial reuse study of old plant tankage and equipment

The Water Reclamation Division is requesting one additional Water Operator 1 position this year to assist with operations and overall plant maintenance. The concept is to offset expenditures to contractors. The vacant Heavy Equipment Operator position is currently being hired and expect it to be filled before the beginning of FY 2009.

Table 3-7: Water Reclamation Staffing			
Position / Title	Pay Grade	Approved FY 2008	Requested FY 2009
Wastewater Plant Superintendent	20	1	1
Assistant Wastewater Plant Superintendent	18	1	1
Industrial Pretreatment Coordinator	17	1	1
Wastewater Operator Sr.	16	3	3
Wastewater Maintenance Technician	14	1	1
Heavy Equipment Operator	12	2	2
Wastewater Operator I	11	9	10
Secretary	9	1	1
Total		19	20

Figure 3-3 presents the organization of the Water Reclamation Division.

Figure 3-3
Water Management Department
Wastewater Treatment Division



Additional information is provided items in the Water Reclamation Division budget as well. These items are included in **Table 3-8**.

Table 3-8: Water Reclamation Supplemental Information		
Budget Code	Description	Notes
82660	Building Maintenance Services	There is a significant change in this item primarily due to necessary improvements to the air conditioning system in the Administration building as well as roof repairs to the administration building, maintenance shop and main pump station.
89530	Machinery and Equipment (>\$10,000)	The funding provided in FY 2008 was not spent for several reasons, primarily due to the NPDES permit status. Permit renewal was applied for in 2006 however the State has not yet issued the permit. The funding is earmarked to provide for possible changes to nutrient limits. Other funding in FY 2008 was not spent because alternative means were found to address the issues creating significant cost savings. The biosolids component was removed because there is a strong potential that solids management can be addressed with the proposed plant in the Goose Creek area.

Table 3-9 presents the proposed expenditures for the Water Reclamation Division.

Table 3-9

431	WASTEWATER OPERATIONS					
52213	WASTEWATER PLANT					
		Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
	<u>PERSONNEL</u>					
81100	Salaries & Wages	660,264	688,718	748,109	762,442	852,752
81400	Employee Benefits	183,269	390,127	402,214	414,827	422,570
	Total Personnel	843,533	1,078,845	1,150,323	1,177,269	1,275,322
	<u>OPERATIONS</u>					
82100	Transportation Charges	778	550	4,310	1,087	3,110
82200	Operating Services	232,971	220,649	348,270	292,950	325,050
82300	Notices, Subscriptions, Publicity	663	805	1,700	2,410	3,100
82400	Utilities	741,607	818,764	927,000	875,500	956,300
82500	Contractual Services	6,233	35,545	426,000	813	327,300
82600	Repair & Maintenance Services	46,010	65,868	125,325	70,976	113,125
82700	Employee Programs	355	260	400	700	700
82800	Professional Development/Travel	518	1,693	12,050	850	3,400
83100	Office Supplies	4,293	4,977	5,350	4,600	5,000
83200	Operating Supplies	173,288	188,475	376,400	212,025	167,800
83300	Fuel & Mileage (Non-Travel)	28,801	26,994	65,000	60,000	64,480
83500	Equipment (<\$10,000)	8,459	9,551	22,700	11,050	30,400
83600	Repair & Maintenance Supplies	49,217	81,145	72,520	84,300	100,250
85100	Property and Liability Costs	51,756	42,280	43,878	39,067	44,927
85200	Rentals	1,575	227	5,000	2,000	5,000
85300	Permits & Fees	8,625	8,800	10,500	8,100	10,500
85900	Other Business Expenses	0	110	1,500	200	500
	Total Operations	1,355,149	1,506,694	2,447,903	1,666,628	2,160,942
	<u>CAPITAL</u>					
89200	Buildings	0	7,854	24,800	0	65,000
89500	Equipment (>\$10,000)	120,767	230,280	1,051,775	24,568	435,432
	Total Capital	120,767	238,134	1,076,575	24,568	500,432
	Total Wastewater Plant Budget	2,319,449	2,823,673	4,674,801	2,868,465	3,936,696

3.4 Wastewater General Expenses and Capital Improvements

Expenditures categorized as Wastewater Operating General Expenses and those identified as Capital Improvements are presented in **Tables 3-10** and **3-11**.

Table 3-10

431 52219 WASTEWATER OPERATING WASTEWATER-GENERAL EXPENSES		Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
<u>PERSONNEL</u>						
81400	Employee Benefits	457,368	23,324	0	5,963	5,963
	Total Personnel	457,368	23,324	0	5,963	5,963
<u>OPERATIONS</u>						
82200	Operating Services	0	0	0	0	0
82300	Notices,Subscriptions & Publicity	0	0	0	0	0
82500	Contractual Services	43,460	31,383	0	10,925	12,253
83500	Equipment (<\$10,000)	208	0	0	0	0
84000	Operational Units	90,000	401,874	401,874	401,874	401,874
85300	Permits & Fees	142,719	1,000	0	16,562	16,562
85500	Financial Fees	22,762	23,872	40,000	29,372	29,372
85900	Other Business Expenses	2,735	0	0	0	0
86000	Debt Service	1,704,759	701,119	1,705,829	1,302,018	1,696,715
	Total Operations	2,006,643	1,159,248	2,147,703	1,760,751	2,156,776
TOTAL WASTEWATER-GENERAL EXPENSES		2,464,010	1,182,572	2,147,703	1,766,714	2,162,739

Table 3-11
WASTEWATER CAPITAL IMPROVEMENTS

432 WASTEWATER ACCESS		Actual	Actual	Budgeted	Estd Actual	Budgeted
		2006	2007	2008	2008	2009
<u>OPERATIONS</u>						
82500	CONTRACTUAL SERVICES	5,958	31,985	0	0	0
85100	PROPERTY & LIABILITY COSTS	0	11,255	0	0	0
85300	PERMITS & FEES	787	186	0	0	0
86000	DEBT SERVICE	1,978,947	1,966,799	1,940,216	140,315	1,947,423
	Total Operations	1,985,692	2,010,225	1,940,216	140,315	1,947,423
<u>CAPITAL</u>						
89100	LAND	55,094	18,049	0	0	0
89300	Improvements	4,482,401	1,444,101	0	0	1,199,100
	Total Capital	4,537,495	1,462,150	0	0	1,199,100
TOTAL WASTEWATER ACCESS		6,523,187	3,472,375	1,940,216	140,315	3,146,523
433 WASTEWATER TAPS		Actual	Actual	Budgeted	Estd Actual	Budgeted
		2006	2007	2008	2008	2009
<u>OPERATIONS</u>						
82300	NOTICES, SUBSCRIPTIONS, PUBLICITY	0	2,563	0	0	0
82500	CONTRACTUAL SERVICES	0	8,255	0	0	150,000
86000	DEBT SERVICE	0	0	0	139,313	139,313
	Total Operations	0	10,818	0	139,313	289,313
<u>CAPITAL</u>						
89100	LAND	7,300	3,000	0	0	0
89200	BUILDINGS	0	0	250,000	0	0
89300	IMPROVEMENTS	0	259,235	2,400,000	0	2,920,400
	Total Capital	7,300	262,235	2,650,000	0	2,920,400
TOTAL WASTEWATER TAPS		7,300	273,053	2,650,000	139,313	3,209,713
434 WASTEWATER BONDS		Actual	Actual	Budgeted	Estd Actual	Budgeted
		2006	2007	2008	2008	2009
<u>OPERATIONS</u>						
82500	Contratual Services	0	37,800	0	0	0
	Total Operations	0	37,800	0	0	0
<u>CAPITAL</u>						
89100	Land	0	0	3,300,000	0	0
89300	Improvements	0	0	5,447,500	0	7,778,500
89500	Equipment (>\$10,000)	0	0	0	0	0
	Total Capital	0	0	8,747,500	0	7,778,500
TOTAL WASTEWATER BONDS		0	37,800	8,747,500	0	7,778,500
435 WASTEWATER ASSESSMENTS		Actual	Actual	Budgeted	Estd Actual	Budgeted
		2006	2007	2008	2008	2009
<u>CAPITAL</u>						
89300	IMPROVEMENTS	0	28,617	245,000	0	684,370
	Total Capital	0	28,617	245,000	0	684,370
TOTAL WASTEWATER ASSESSMENTS		0	28,617	245,000	0	684,370

Section 4: Reclaimed Water Systems

On February 10, 2004, the City of Franklin Board of Mayor and Aldermen officially created the reclaimed division through adoption of Title 18, Chapter 4, of the Franklin Municipal Code. With the adoption of Chapter 4, the Water Management Department instituted the enforcement of the State Approved Construction Standards, Regulation and Fee Structures as set forth in the Ordinance. The Reclaimed Water Division produces and distributes water for commercial and residential irrigation use within the City's water service area.

The Division anticipates increasing demand on the reclaimed water system as the Westhaven Golf Course comes online this year as well as an increased interest due to the extraordinary drought experienced throughout the summer of 2007. Additional long term planning for the reclaimed water system continues with the planning and construction of transmission in the Goose Creek portion of the service area as well as on the west side of Franklin in the vicinity of Jim Warren Park.

There are no dedicated personnel assigned to this division. Personnel from the Wastewater Collection Division and Water Distribution Division currently maintain the reclaimed water lines and personnel from the Water Reclamation Plant operate and maintain the pumps and sampling stations.

Table 4-1 presents the proposed expenditures for the Reclaimed Water Division. **Table 4-2** presents the proposed capital expenditures for the Reclaimed Water Division.

Table 4-1

441	RECLAIMED OPERATIONS					
52321	RECLAIMED WATER					
		Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
	<u>OPERATIONS</u>					
82100	Transportation Charges	0	51	500	0	500
82200	Operating Services	66	0	0	0	0
82300	Notices, Subscriptions, Publicity	25	0	100	0	100
82400	Utilities	0	0	50,000	0	30,000
82500	Contractual Services	3,360	6,180	10,000	0	0
82600	Repair & Maintenance Services	1,351	2,040	25,000	0	25,000
83200	Operating Supplies	8,789	34,808	31,000	40,000	71,000
83500	Equipment (<\$10,000)	962	0	0	0	0
83600	Repair & Maintenance Supplies	31,439	3,716	14,000	0	18,000
	Total Operations	45,992	46,795	130,600	40,000	144,600
	<u>CAPITAL</u>					
89300	Improvements	0	0	75,500	0	0
	Total Capital	0	0	75,500	0	0
	Total Reclaimed Water Budget	45,992	46,795	206,100	40,000	144,600

Table 4-2

442	RECLAIMED ACCESS					
52351	RECLAIMED ACCESS					
		Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
	<u>OPERATIONS</u>					
86000	Debt Service	0	0	0	0	0
	Total Operations	0	0	0	0	0
	<u>CAPITAL</u>					
89200	Buildings	17,392	0	0	0	0
89300	Improvements	0	0	0	0	0
	Total Capital	17,392	0	0	0	0
	TOTAL RECLAIMED ACCESS	17,392	0	0	0	0
443	RECLAIMED TAPS					
52352	RECLAIMED TAPS					
		Actual 2006	Actual 2007	Budgeted 2008	Estd Actual 2008	Budgeted 2009
	<u>OPERATIONS</u>					
86000	Debt Service	0	0	0	0	0
	Total Operations	0	0	0	0	0
	<u>CAPITAL</u>					
89200	Buildings	0	0	0	0	0
89300	Improvements	0	0	0	0	0
	Total Capital	0	0	0	0	0
	TOTAL RECLAIMED TAPS	0	0	0	0	0
444	RECLAIMED BONDS					
52353	RECLAIMED BONDS					
		Actual 2006	Actual 2007	Budgeted 2008	Estimated Actual 2008	Budgeted 2009
	<u>CAPITAL</u>					
89200	Buildings	260,075	950,986	0	0	0
89300	Improvements	0	0	1,100,000	2,700	2,963,700
	Total Capital	260,075	950,986	1,100,000	2,700	2,963,700
	TOTAL RECLAIMED BONDS	260,075	950,986	1,100,000	2,700	2,963,700

**Table 4-3
Capital Listing**

City of Franklin
2008-2009 Fiscal Year Budget
Capital Assets

89230 - Building Improvements

Fund	Dept	Division	Project No	Description	Budget 2009
Water	Water Management	Water Plant	52103-0804	Facility Roof Repair (CIP)	25,000
Wastewater	Water Management	Wastewater Plant	52213-0804	Maintenance Shop Electrical Improvements	25,000
Wastewater	Water Management	Utility Administration	52211-0803	Service Department Sprinkler Installation	12,000
Wastewater	Water Management	Utility Administration	52211-0802	Stockroom Upgrades - Carryover to allow for adjustments in Fleet Maintenance	20,000
Wastewater	Water Management	Wastewater Plant	52213-0815	Wastewater Treatment Plant Roof Repairs	40,000
Building Improvements Total					122,000

89320 - Distribution Systems

Fund	Dept	Division	Project No	Description	Budget 2009
Water	Water Bonds	Water Distribution	52102-0810	4th Avenue Water Line Upgrade (Bridge to Margin)	65,000
Water	Water Bonds	Water Distribution	52102-0810	4th Avenue Water Line Upgrade (Bridge to Margin) Design	15,000
Water	Water Bonds	Water Distribution	52102-0811	9th Avenue Water Line Upgrade Construction	225,000
Water	Water Bonds	Water Distribution	52102-0811	9th Avenue Water Line Upgrade Design	20,000
Water	Water Bonds	Water Distribution	52102-0813	Bobby Drive Dead End Elimination	30,000
Water	Water Bonds	Water Distribution	52102-0701	Boyd Mill Avenue Water Line	200,000
Water	Water Bonds	Water Distribution	52102-0701	Boyd Mill Avenue Water Line Design - Contract Value = \$22,560; Accrued as of February 2008 = \$0	22,560
Water	Water Bonds	Water Distribution	52102-0817	Columbia Avenue Water Line Upgrade	300,000
Water	Water Bonds	Water Distribution	52102-0703	Downs Boulevard Water Line Connection	75,000
Water	Water Access	Water Distribution	52102-0702	Downs Boulevard Water Transmission Line	2,000,000
Water	Water Bonds	Water Distribution	52102-0702	Downs Boulevard Water Transmission Line Design - Contract Value = \$275,000; Accrued as of February 2008 = \$41,250	233,750
Water	Water Bonds	Water Plant	52103-0805	Finished Water Disinfection Upgrades (CIP):	50,000
Water	Water Bonds	Water Distribution	52102-0809	Goose Creek Area Distribution System Construction	2,500,000
Water	Water Bonds	Water Distribution	52102-0809	Goose Creek Area Distribution System Design - Additional Design Work Due to Project Delays from Development and I-65 Roadway Crossing	22,000
Water	Water Bonds	Water Distribution	52102-0809	Goose Creek Area Distribution System Design - Original Contract Value = \$205,500; Accrued as of February 2008 = \$202,120	3,380
Water	Water Bonds	Water Distribution	52102-0821	Granbury Street Water Line Upgrade Construction	230,000
Water	Water Bonds	Water Distribution	TBD	Granbury Street Water Line Upgrade Design	20,000

City of Franklin
2008-2009 Fiscal Year Budget
Capital Assets

89320 - Distribution Systems (continued)

Fund	Dept	Division	Project No	Description	Budget 2009
Water	Water Bonds	Water Plant	52103-0806	Harpeth River Flow Monitoring Station Construction	80,000
Water	Water Bonds	Water Plant	52103-0806	Harpeth River Flow Monitoring Station Design	20,000
Water	Water Taps	Water Distribution	52102-0808	Hillsboro Road Water Line Upgrade	600,000
Water	Water Bonds	Water Distribution	52102-0808	Hillsboro Road Water Line Upgrade Design - Contract Value = \$127,960; Accrued as of February 2008 = \$106,200	21,760
Water	Water Bonds	Water Distribution	52102-0814	HVUD Water Meter Vault Upgrade Design - Contract Value = \$61,500	61,500
Water	Water Bonds	Water Distribution	52102-0814	HVUD Water Meter Vault Upgrades	250,000
Water	Water Bonds	Water Distribution	52102-0812	Kinnard Drive Water Line Upgrades (Kinnard to Sontag and Kinnard to Sunset)	200,000
Water	Water Bonds	Water Distribution	52102-0812	Kinnard Drive Water Line Upgrade Design (Component of Adams Design) - Contract Value = \$34,000; Accrued as of February 2008 = \$28,560	5,440
Water	Water Bonds	Water Distribution	52102-0812	Kinnard Drive Water Line Upgrade (Kinnard to Sontag)	15,000
Water	Water Bonds	Water Distribution	52102-0815	Long Lane Reservoir (Bid \$1,587,000)	1,650,000
Water	Water Taps	Water Distribution	52102-0816	Sycamore Drive and Chestnut Drive Dead End Elimination	10,000
Water	Water Bonds	Water Distribution	TBD	Water Line Upgrade Buckworth	85,000
Water	Water Bonds	Water Distribution	TBD	Water Line Upgrade Bradford Drive	115,000
Water	Water Bonds	Water Plant	TBD	Water Treatment Plant Upgrades	2,000,000
Water	Water Bonds	Water Plant	TBD	Water Treatment Plant - Contract Value = \$950,962; Authorized to Date = \$349,102; Accrued as of February 2008 = \$349,102	601,860
Wastewater	Wastewater Assessments	Wastewater Collection	52212-0816	Boyd Mill Avenue Special Assessment District	325,000
Wastewater	Wastewater Assessments	Wastewater Collection	52212-0816	Boyd Mill Pike Special Assessment Engineering - Contract Fee = \$38,500; Accrued as of February 2008 = \$3,850	34,650
Wastewater	Wastewater Taps	Wastewater Collection	TBD	Bradford Drive Upgrades	53,000
Wastewater	Wastewater Taps	Wastewater Collection	TBD	Carters Creek Pump Station Upgrades - Carryover	25,000
Wastewater	Wastewater Bonds	Wastewater Collection	52212-0814	Fivemile Creek Interceptor - Bid = \$4,822,252; Reclaimed Component = \$1,240,000; Carryover \$2,437,500	1,200,000
Wastewater	Wastewater Bonds	Wastewater Collection	52212-0814	Fivemile Creek Interceptor - Carryover \$2,437,500	2,437,500
Wastewater	Wastewater Bonds	Wastewater Collection	52212-0814	Fivemile Creek Interceptor Resident Engineer	90,000
Wastewater	Wastewater Bonds	Wastewater Collection	52212-0813	Goose Creek Phase 2 - Bid = \$4,460,369; Reclaimed Component = \$420,000; Carryover = 2,251,000	1,800,000
Wastewater	Wastewater Bonds	Wastewater Collection	52212-0813	Goose Creek Phase 2 - Carryover \$2,251,000	2,251,000
Wastewater	Wastewater Access	Wastewater Plant	TBD	Goose Creek WWTP Geotechnical Study - Carryover of \$70,000	70,000
Wastewater	Wastewater Access	Wastewater Plant	TBD	Goose Creek WWTP Preliminary Engineering Study - Carryover of \$55,000 plus additional \$45,000 to provide for adequate funding	100,000
Wastewater	Wastewater Assessments	Wastewater Collection	52212-0820	Highgate Special Assessment District (Carryover)	250,000
Wastewater	Wastewater Assessments	Wastewater Collection	52212-0820	Highgate Special Assessment Engineering - Contract Fee = \$61,200; Accrued as of February 2008 = \$48,960	12,240
Wastewater	Wastewater Taps	Wastewater Collection	52212-0812	Hillsboro Road Spot Improvements	968,400
Wastewater	Wastewater Assessments	Wastewater Collection	52212-0822	Hooper Lane Special Assessment District	50,000
Wastewater	Wastewater Assessments	Wastewater Collection	52212-0822	Hooper Lane Special Assessment Engineering - Contract Fee = \$15,600; Accrued as of February 2008 = \$3,120	12,480
Wastewater	Water Management	Wastewater Collection	52212-0805	Permanent Flow Monitoring Stations (CIP) 5 throughout collection system based on master planning	80,000
Wastewater	Wastewater Taps	Wastewater Collection	TBD	Relocation of Line at North Margin and Hillsboro Road	60,000

City of Franklin
2008-2009 Fiscal Year Budget
Capital Assets

89320 - Distribution Systems (continued)

Fund	Dept	Division	Project No	Description	Budget 2009
Wastewater	Wastewater Taps	Wastewater Collection	52212-0811	Sharps Branch Rehabilitation	1,767,550
Wastewater	Wastewater Taps	Wastewater Collection	52212-0811	Sharps Branch Rehab - Carryover; original contract = \$132,450; carryover as of February 2008 = \$46,450	46,450
Wastewater	Wastewater Access	Wastewater Collection	52212-0823	Simmons Ridge Sewer (Construction Estimate = \$1,800,000, Carryover \$759,000)	759,000
Wastewater	Wastewater Access	Wastewater Collection	52212-0823	Simmons Ridge Sewer (Construction Estimate = \$1,800,000, Carryover \$759,000; Remainder of 50% of construction)	141,000
Wastewater	Wastewater Access	Wastewater Collection	52212-0823	Simmons Ridge Sewer Design - Contract value = \$121,000; Accrued as of February 2008 = \$61,900	59,100
Wastewater	Wastewater Access	Wastewater Collection	52212-0824	Treemont PS Telemetry (CIP): To provide for telemetry at the Treemont #1 and #2 Pump Stations	20,000
Wastewater	Wastewater Access	Wastewater Collection	52212-0826	Westhaven Pump Station - Additional Pump	50,000
Reclaimed	Reclaimed Bonds	Reclaimed	52321-0803	Downs Boulevard Reclaimed Line Construction	850,000
Reclaimed	Reclaimed Bonds	Reclaimed	52321-0803	Downs Boulevard Reclaimed Line Design - Contract Value = \$33,900; Accrued as of February 2008 = \$2,700	31,200
Reclaimed	Reclaimed Bonds	Reclaimed	52321-0702	Five-Mile Creek Interceptor Reclaimed Component - Carryover of 620,000	1,240,000
Reclaimed	Reclaimed Bonds	Reclaimed	52321-0701	Goose Creek Interceptor Phase 2 Reclaimed Component - Carryover of \$210,000	420,000
Reclaimed	Reclaimed Bonds	Reclaimed	52321-0804	Southwest Reclaimed Water Line - 50% of Construction Estimate	400,000
Reclaimed	Reclaimed Bonds	Reclaimed	52321-0804	Southwest Reclaimed Water Line Design - Contract Value = \$22,500; Accrued as of February 2008 = \$0	22,500
Distribution Systems Total					27,353,320

89520 - Vehicles (> \$10,000)

Fund	Dept	Division	Project No	Description	Budget 2009
Wastewater	Water Management	Wastewater Plant	52213-0809	Biosolids Dump Truck	150,000
Wastewater	Water Management	Wastewater Plant	52213-0807	Pickup Truck 4x4 (CIP)	25,000
Vehicles (> \$10,000) Total					175,000

City of Franklin
2008-2009 Fiscal Year Budget
Capital Assets

89530 - Machinery & Equipment (> \$10,000)

Fund	Dept	Division	Project No	Description	Budget 2009
Water	Water Management	Water Distribution	TBD	Asphalt Zipper	70,000
Water	Water Management	Water Distribution	TBD	Automatic Valve Exercising Equipment	60,000
Water	Water Management	Water Plant	TBD	Travelling Screen Replacement; currently evaluating alternatives however including in budget in case it is necessary to fund	170,000
Water	Water Management	Water Plant	TBD	Filter Rate of Flow Valves; currently evaluating alternatives however including in budget in case it is necessary to fund	100,000
Wastewater	Water Management	Wastewater Plant	52213-0814	Diffused Air Flotation (DAF) System Maintenance (CIP)	25,000
Wastewater	Water Management	Wastewater Plant	52213-0805	Nutrient Removal - Carryover (still waiting on TDEC for NPDES Permit)	175,432
Wastewater	Water Management	Wastewater Collection	52212-0809	Trailer Mounted Welder (CIP)	12,000
Wastewater	Water Management	Wastewater Plant	52213-0810	Ultraviolet Bulb for UV Disinfection equipment (CIP)	60,000
Wastewater	Water Management	Wastewater Collection	52212-0807	Wastewater Collection SCADA Improvements (CIP)	150,000
Machinery & Equipment (> \$10,000) Total					822,432

89550 - Computer Software (> \$10,000)

Fund	Dept	Division	Project No	Description	Budget 2009
Wastewater	Water Management	Wastewater Collection	TBD	ESRI GIS Module	12,900
Computer Software (> \$10,000) Total					12,900

Total Capital

28,485,652

Capital by Fund

Water	12,152,250
Wastewater	13,369,702
Reclaimed	2,963,700
Total Capital	28,485,652

Capital by Department

Water Management	1,212,332
Water Access	2,000,000
Water Taps	610,000
Water Bonds	9,117,250
Wastewater Access	1,199,100
Wastewater Taps	2,920,400
Wastewater Bonds	7,778,500
Wastewater Assessments	684,370
Reclaimed Bonds	2,963,700
Total Capital	28,485,652

Capital by Division

Water Distribution	9,105,390
Water Plant	3,046,860
Utility Administration	32,000
Wastewater Collection	12,667,270
Wastewater Plant	670,432
Reclaimed	2,963,700
Total Capital	28,485,652